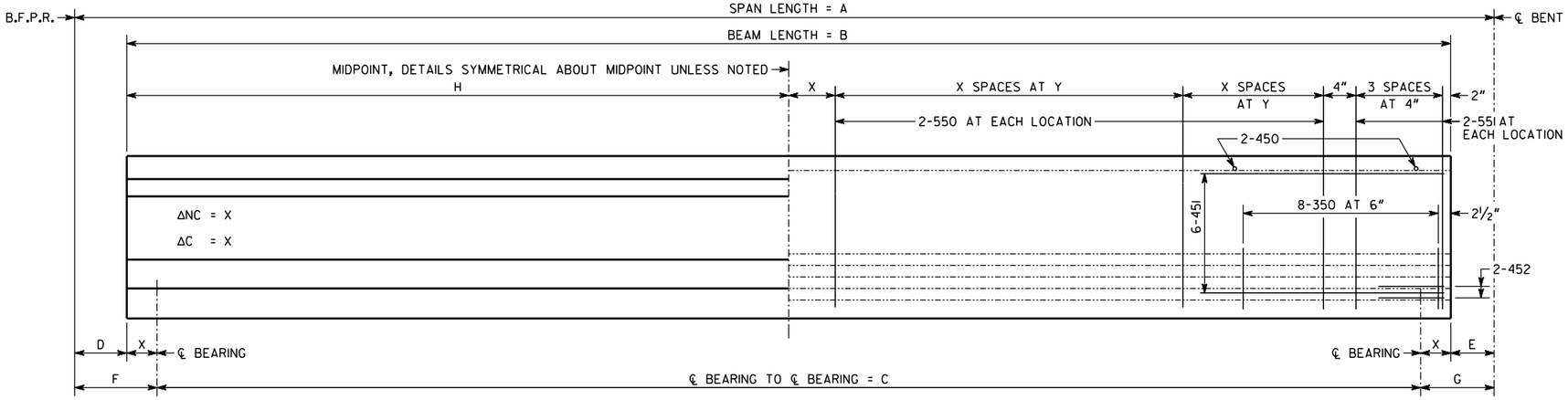
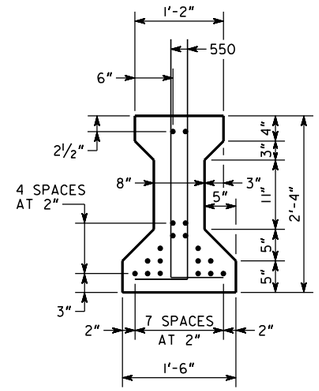
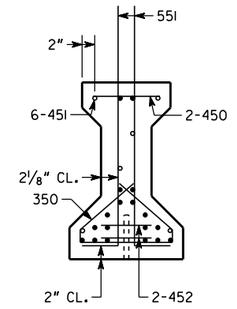


ELEVATION





MAINTAIN 1" MINIMUM CLEARANCE UNLESS OTHERWISE SHOWN.
• INDICATES ½" DIAMETER PRESTRESSED STRANDS.

SECTION AT MIDPOINT

SECTION AT END

NOTES

1. BEAMS SHALL BE MAINTAINED IN AN UPRIGHT POSITION AT ALL TIMES AND SHALL BE PICKED UP WITHIN 3'-6" FROM THEIR ENDS. DISREGARDING THIS REQUIREMENT COULD LEAD TO COLLAPSE OF THE BEAM. PICK-UPS SHALL BE EMBEDDED TO WITHIN 4" OF THE BOTTOM OF THE BEAM. DETAILS OF PICK-UPS SHALL BE INCLUDED IN THE SHOP DRAWINGS.

2. CHAMFER EDGES OF BEAMS ½" OR ¾".

3. HORIZONTAL DIMENSIONS ARE IN PLACE DIMENSIONS. THE BEAM LENGTH INCLUDES THE ⅛" EPOXY MORTAR AT EACH END. SHOP DRAWINGS SHALL ADJUST HORIZONTAL DIMENSIONS FOR GRADE AND FABRICATION EFFECTS SUCH AS SHRINKAGE AND ELASTIC SHORTENING.

4. AT ℄ BEARING, FORM A 1¾" DIAMETER X 7" DEEP HOLE AT THE FIXED ENDS AND A 4" X 1¾" X 7" DEEP SLOT AT THE EXPANSION ENDS FOR A 1½" DIAMETER SMOOTH DOWEL. SEE PLAN AND ELEVATION SHEET FOR LOCATION OF FIXED AND EXPANSION ENDS.

5. TOPS OF BEAMS SHALL BE ROUGH FLOATED AT APPROXIMATELY THE TIME OF INITIAL SET. ENTIRE TOP SHALL BE SCRUBBED TRANSVERSELY WITH A COARSE BRUSH TO REMOVE ALL LAITANCE AND TO PRODUCE A ROUGHENED SURFACE FOR BONDING TO THE SLAB. ROUGHENED SURFACE SHALL HAVE AN AMPLITUDE OF APPROXIMATELY ¼". CONCRETE FINS OR PROJECTIONS SHALL BE REMOVED TO PRODUCE A VERTICAL FACE AT THE EDGE OF THE BEAM.

6. ALL HOLES FORMED INTO THE BEAMS TO FACILITATE TRANSPORT SHALL BE FILLED AND GIVEN A TYPE I FINISH, PRIOR TO ACCEPTANCE OF THE BEAM. REMOVE PVC OR SIMILAR FORMING MATERIALS FROM EACH HOLE, EXPOSING THE CONCRETE SURFACE. COAT INTERIOR OF HOLE WITH A TYPE II EPOXY RESIN ADHESIVE IN ACCORDANCE WITH GEORGIA STANDARD SPECIFICATION 886 AND FILL WITH A RAPID SETTING PATCHING MATERIAL IN ACCORDANCE WITH GEORGIA STANDARD SPECIFICATION 934.

7. NON-COMPOSITE DEAD LOAD DEFLECTION (ΔNC) AT THE MIDPOINT IS DUE TO THE WEIGHT OF THE SLAB AND COPING.

8. COMPOSITE DEAD LOAD DEFLECTION (ΔC) AT THE MIDPOINT IS DUE TO THE WEIGHT OF BARRIER.

9. STRANDS SHALL MEET ALL REQUIREMENTS OF ASTM A 416 GRADE 270.

10. PRESTRESSING DATA IS AS FOLLOWS:

    A. USE XX - ½" DIAMETER SPECIAL LOW-RELAXATION (A = 0.167 SQ IN) STRANDS. PRETENSION STRANDS TO 33,818 LBS EACH.

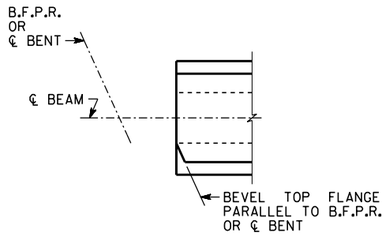
    B. PRETENSIONED STRANDS SHALL BE RELEASED AFTER THE CONCRETE HAS REACHED A MINIMUM STRENGTH (f'_{ci}) OF X,XXX PSI.

    C. INCLUDING THE TOP STRANDS, THE TOTAL JACKING FORCE OF PRETENSIONING IS XXX,XXX LBS.

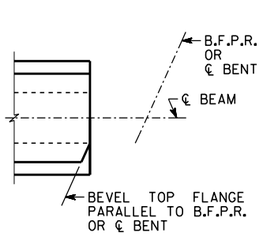
    D. INCLUDING THE TOP STRANDS, THE NET PRESTRESSING FORCE OF THE STRANDS AFTER ALL LOSSES IS XXX,XXX LBS.

11. CONCRETE STRENGTH (f'_c) = X,XXX PSI.

12. ALLOWABLE PSC BEAM TENSION = XXX PSI.



BEVEL DETAILS



BEVEL DETAILS

REINFORCEMENT

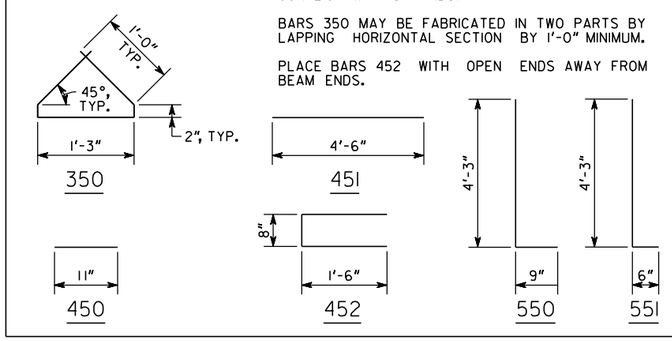
ALL BAR DIMENSIONS ARE OUT TO OUT.

AT THE TOP OF THE BEAM, BARS 550 AND 551 SHALL BE FIELD BENT OR SHOP BENT 90°, SUCH THAT THE HORIZONTAL LEG EXTENDS BETWEEN TOP AND BOTTOM MATS OF SLAB REINFORCEMENT.

SLIGHTLY SHIFT OR SLOPE BARS 451 TO AVOID CONFLICT WITH STRANDS.

BARS 350 MAY BE FABRICATED IN TWO PARTS BY LAPPING HORIZONTAL SECTION BY 1'-0" MINIMUM.

PLACE BARS 452 WITH OPEN ENDS AWAY FROM BEAM ENDS.



BRIDGE NO. 1

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

TYPE I MOD PSC BEAM - END SPANS

X

X X

NO SCALE X

DRAWING NO. 35-XXXX

BRIDGE SHEET X OF X

DESIGNED X CHECKED X REVIEWED DLC/SKG
DRAWN X DESIGN GROUP X APPROVED DPD

DATE | REVISIONS | BY

1 INCH WHEN PRINTED FULL SIZE

1/1/2022 TEMPLATE LAST REVISED JANUARY 7, 2022

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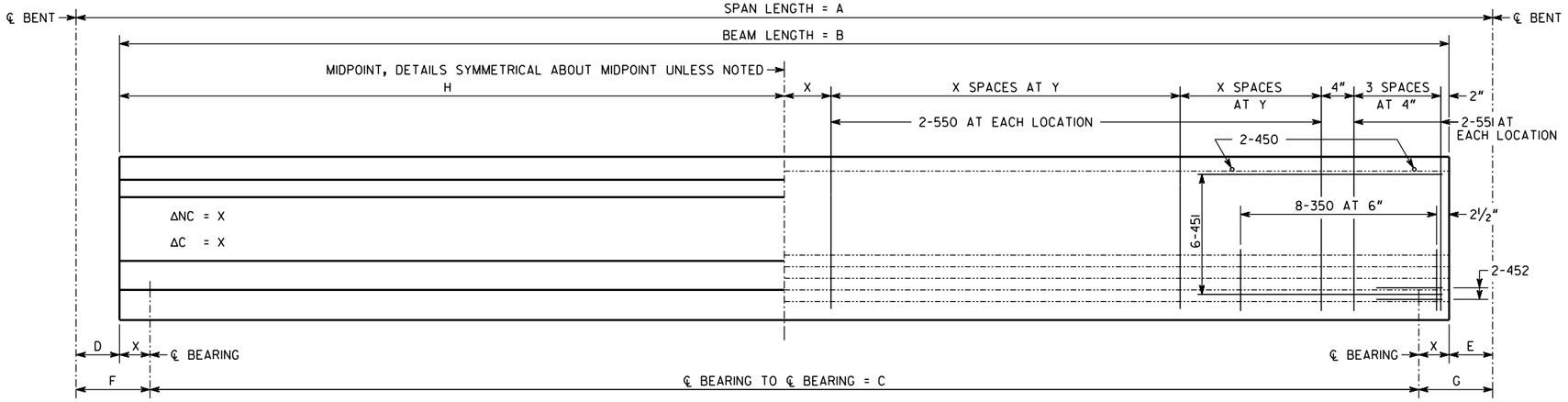
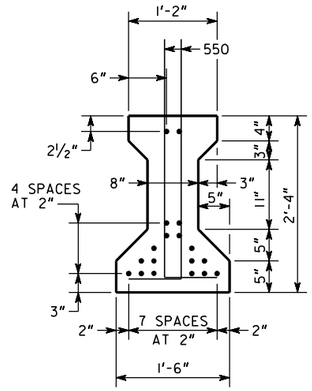
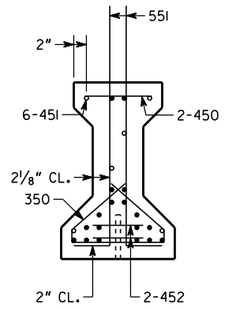


ELEVATION





MAINTAIN 1" MINIMUM CLEARANCE UNLESS OTHERWISE SHOWN.
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SECTION AT MIDPOINT

SECTION AT END

NOTES

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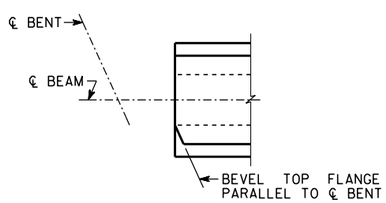
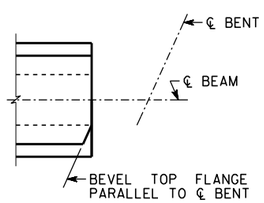
    B. PRETENSIONED STRANDS SHALL BE RELEASED AFTER THE CONCRETE HAS REACHED A MINIMUM STRENGTH (f'_{ci}) OF X,XXX PSI.
    C. INCLUDING THE TOP STRANDS, THE TOTAL JACKING FORCE OF PRETENSIONING IS XXX,XXX LBS.
    D. INCLUDING THE TOP STRANDS, THE NET PRESTRESSING FORCE OF THE STRANDS AFTER ALL LOSSES IS XXX,XXX LBS.
11. CONCRETE STRENGTH (f'_c) = X,XXX PSI.
12. ALLOWABLE PSC BEAM TENSION = XXX PSI.



BEVEL DETAILS



BEVEL DETAILS

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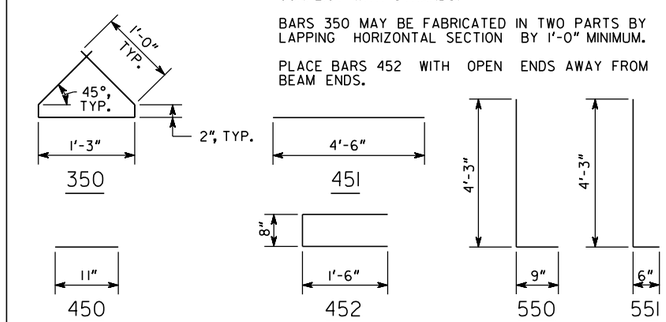

BRIDGE NO. 1

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

TYPE I MOD PSC BEAM - INTERMEDIATE SPANS

X

X X

NO SCALE X

DRAWING NO. 35-XXXX

BRIDGE SHEET X OF X

DESIGNED X CHECKED X REVIEWED DLC/SKG
DRAWN X DESIGN GROUP X APPROVED DPD

DATE | REVISIONS | BY

1 INCH WHEN PRINTED FULL SIZE

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